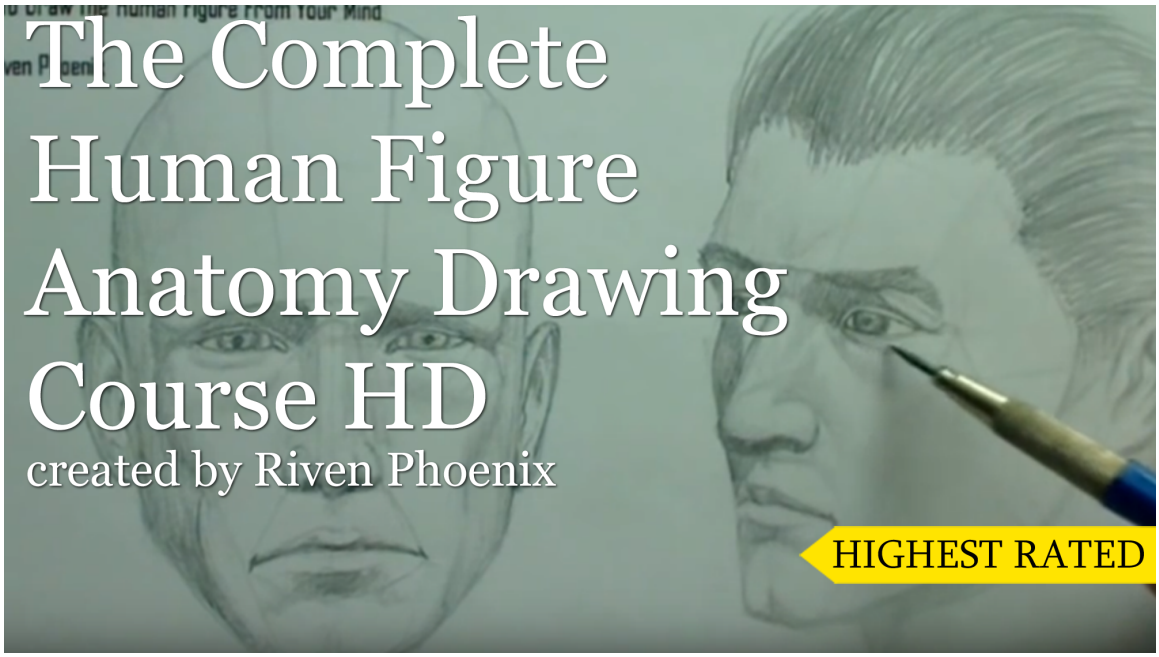

The Structure of Man

Learn to Draw the Human Figure From Your Mind with Riven Phoenix

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Figure Drawing Lesson 044 - Front Formulas of the invention of Femur

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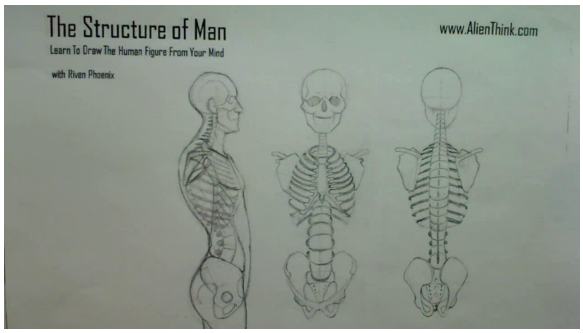
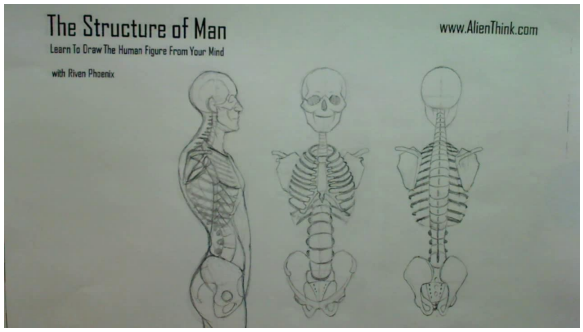
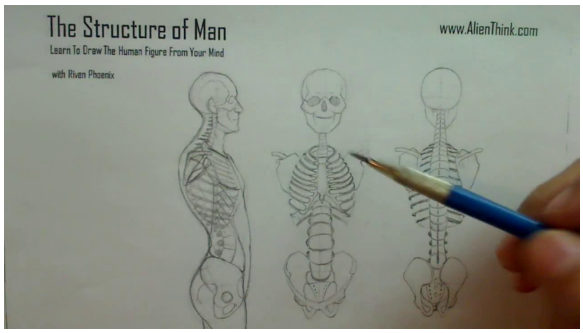
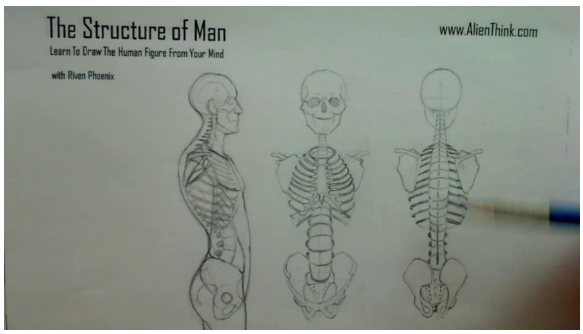
1		Hey guys, my name is Riven Phoenix and welcome to the structure of man learn to draw a human
2		figure from your mind training course.
3		Okay, so coming off from the previous lesson, I have left this as a challenge for you
4		to complete and this is basically what it should be looking like, right?

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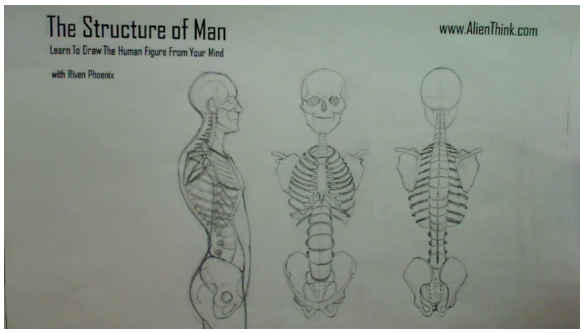
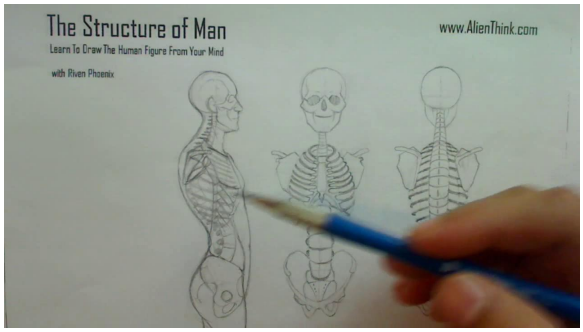
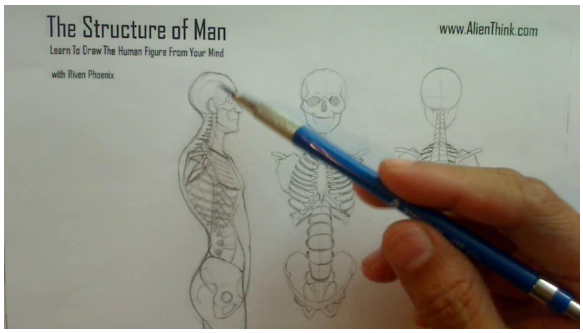
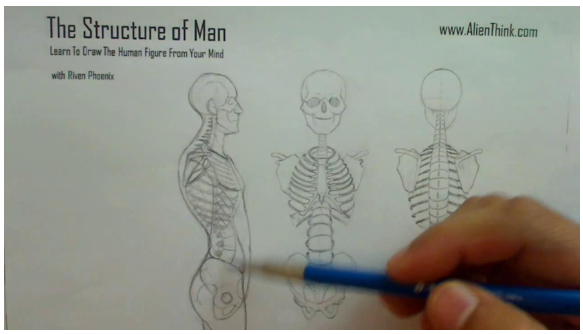
5		So you can have a little slightly different version of yours, right?
6		So in that previous lesson we had looked at really what the end result is going to be
7		that basically in the end, because we're really talking through the whole concept of the
8		entire skeleton system, in the end when we understood all the muscles, it's just going

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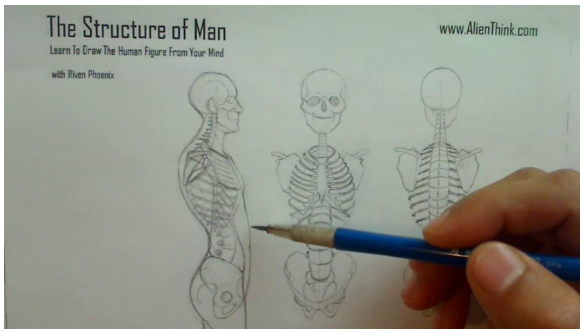
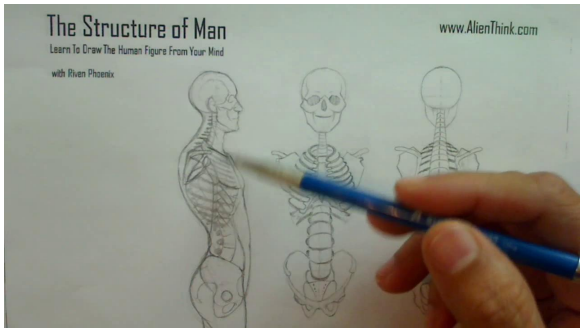
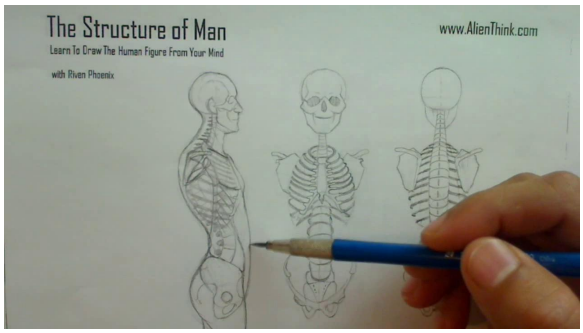
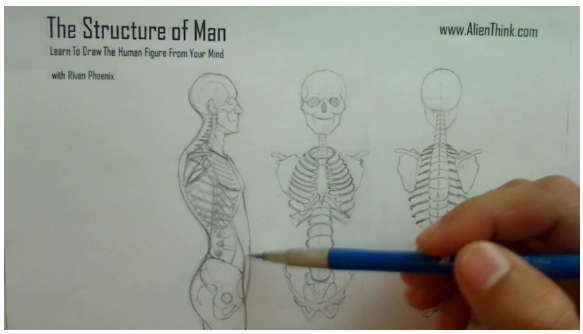
9		to come down to that the mind will just know the forms of the human figure, right?
10		It will just know, know it by ratios, it will know with the how the, the peck muscles
11		are, it will know with the belly button is compared to where the love handles are, right?
12		The relationships, even from the side here you can see that you're going to get your

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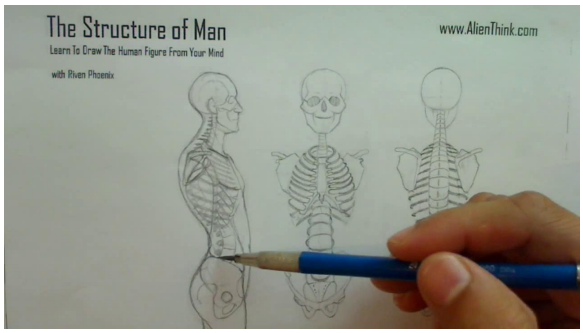
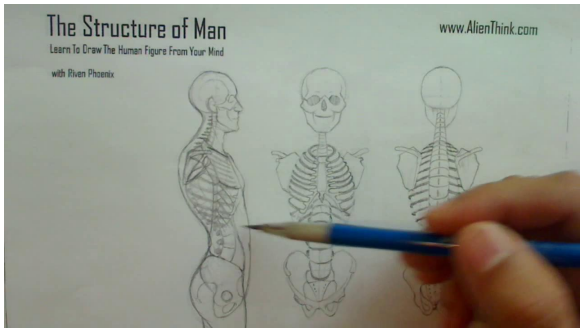
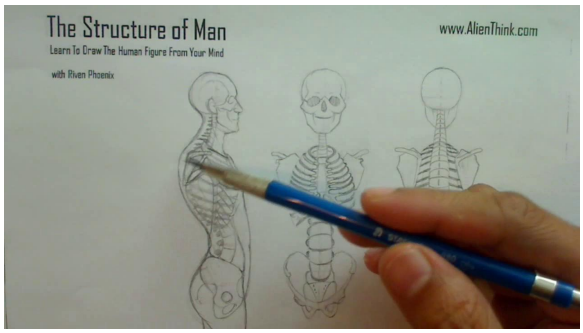
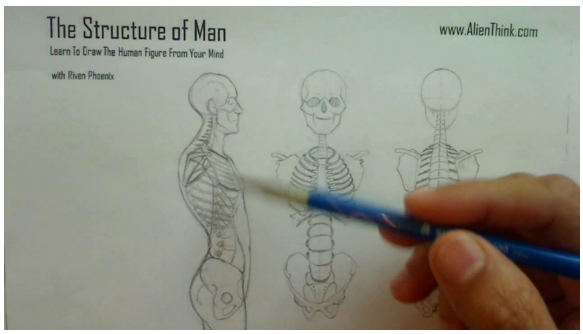
13		botox here and the belly button will be here and you always know that that this area here
14		is going to be where your love handles are going to be, right?
15		So this form just shows you what happens when you know the skeleton system inside and
16		now just the way we are that it will allow us to draw very fluid and realistic looking

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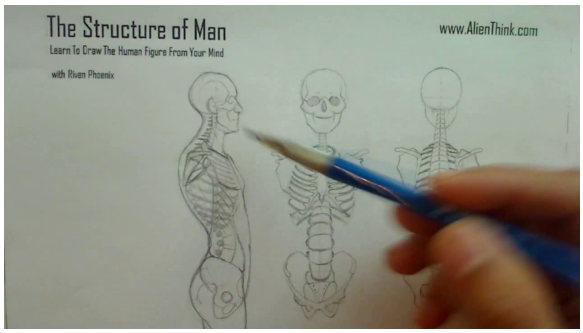
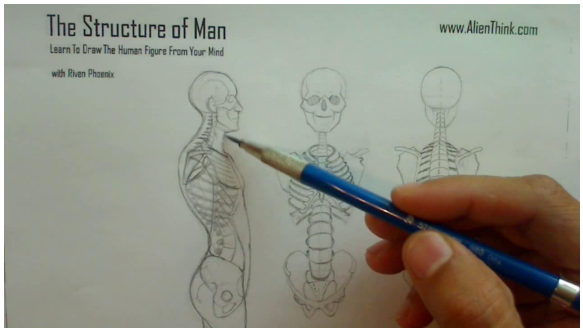
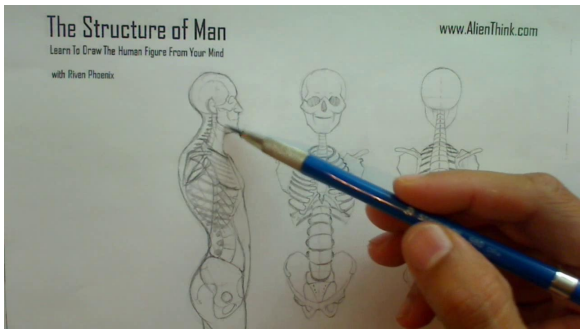
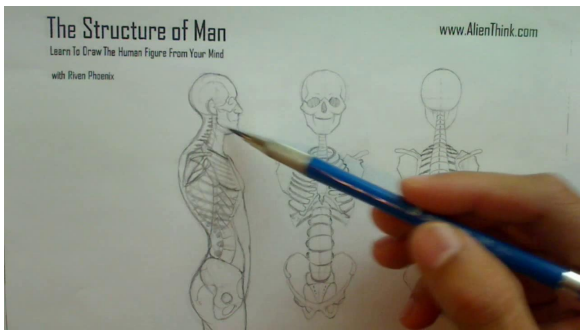
17		figures, right?
18		And here in the neck area you'll get to know there's this area here under the neck that
19		gives us that soft tissue over here, right?
20		And this is something you can notice, even in the mirror, if you look you'll see that

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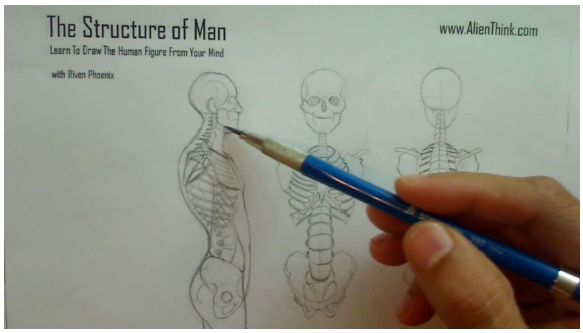
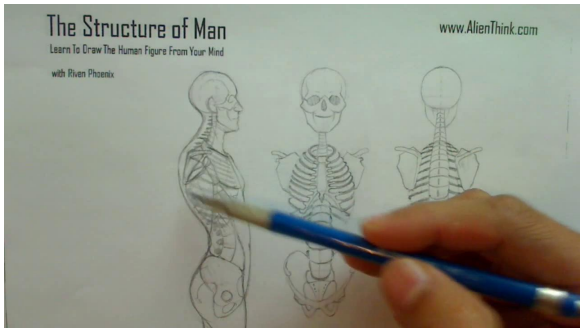
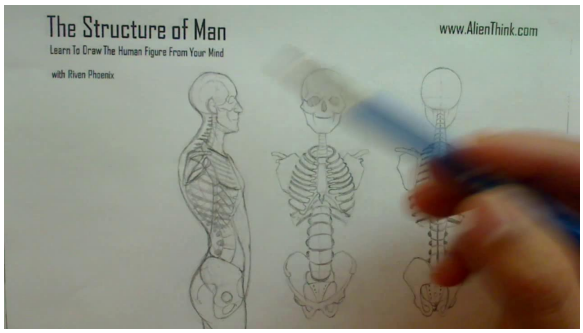
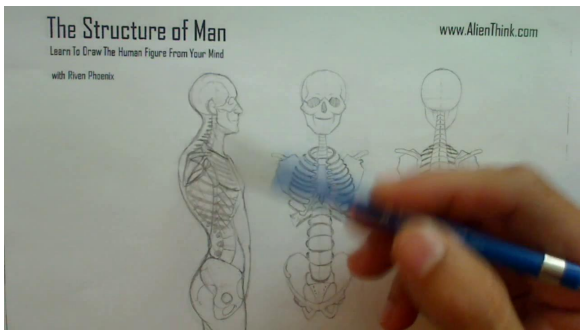
21		the jaw bone is here, but then right under it there's the fluffy area in here, right?
22		So this is like the understanding of the forms, right?
23		So when we're drawing out the, the figure really we're just going to be using the toolkit
24		and turn really everything into basic shapes like this and then come back on top of it and

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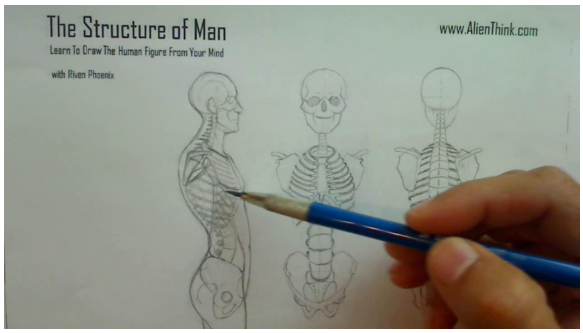
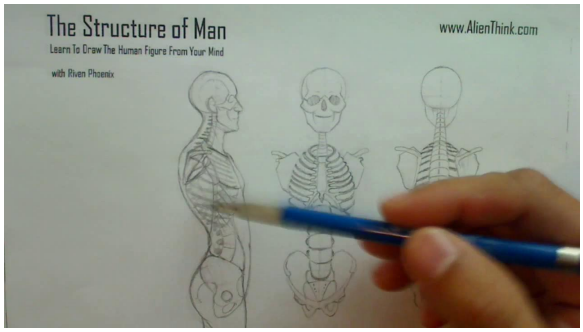
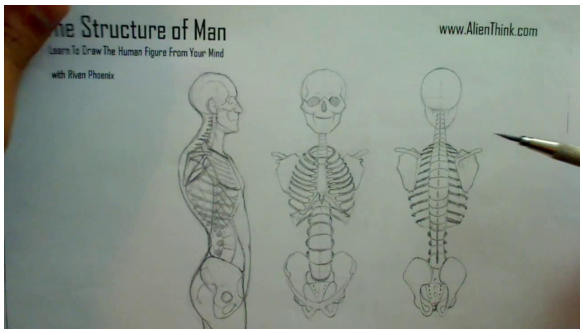
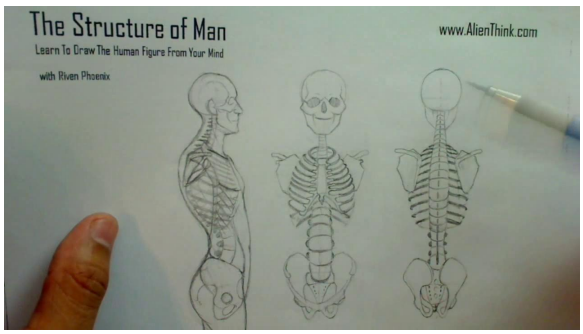
25		really just use count or lines to define the structure, right?
26		But we cannot do that unless we have the knowledge of the muscles.
27		So here you can see it's just getting easier and easier for the mind to grab the concept
28		of the skeleton structure, right?

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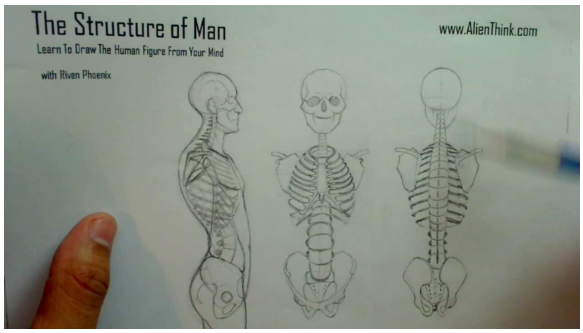
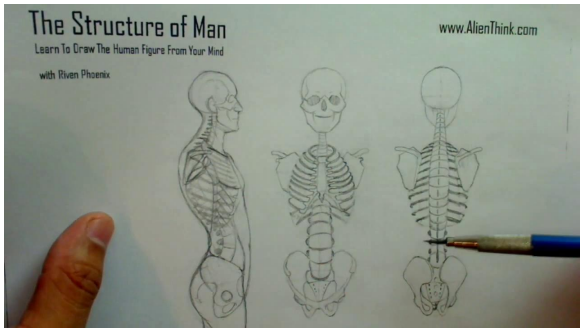
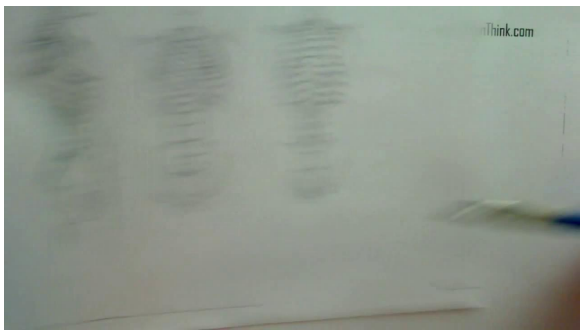
29		It's going through these mastery phases because we're inventing everything as if it's our
30		own idea.
31		So now we're going to take a look at the bottom area here of the skeleton structure which
32		is going to be the theme bone.

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33		So in order to understand this, it's going to be actually very simple.
34		What we need to do, we're just going to first draw out a line over here, we're going
35		to make this as big as possible.
36		So what we need to figure out is we need to fit the pelvis and then the only where the

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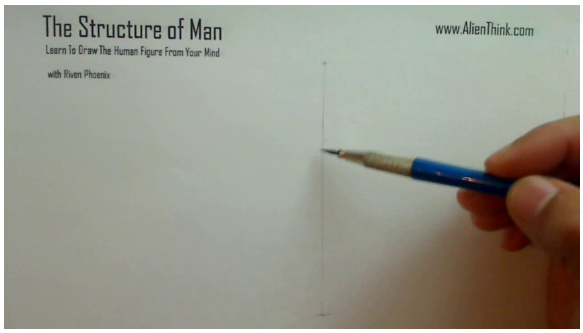
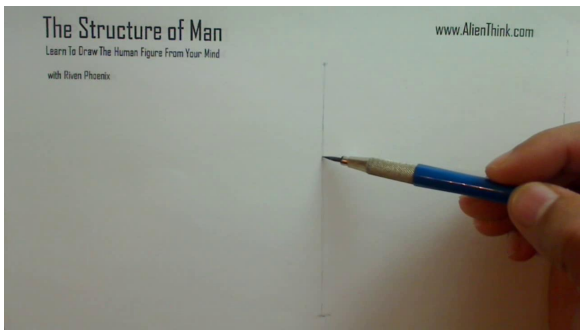
37		knees section is, right?
38		So this is the line for the knees and this is really going to be the line for the belly
39		button, right?
40		So what we need to do is basically divide this in about three equal sections.

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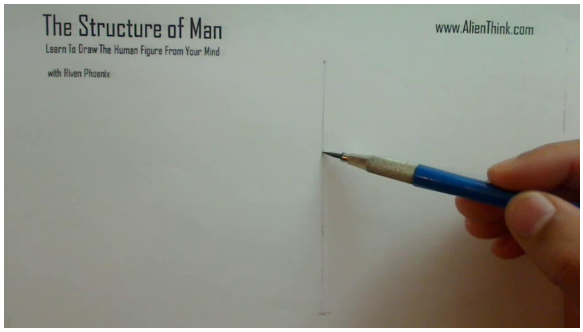
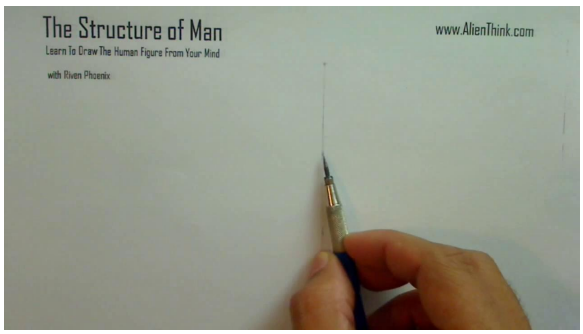
41		That's like the most easiest way to do that.
42		So you can just fiddle around with some of these lines here or you can just take one conceptual
43		line here and then just make sure that you're going to, okay, that should fit on my camera
44		here.

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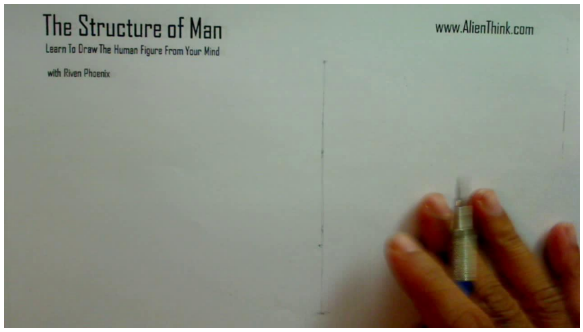
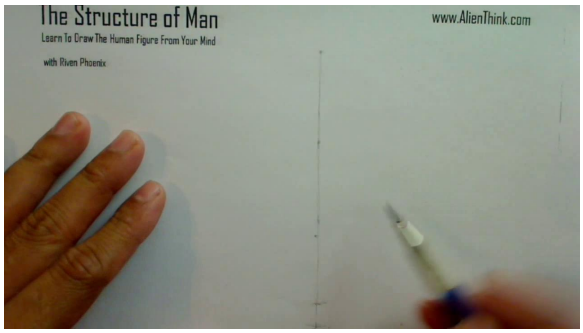
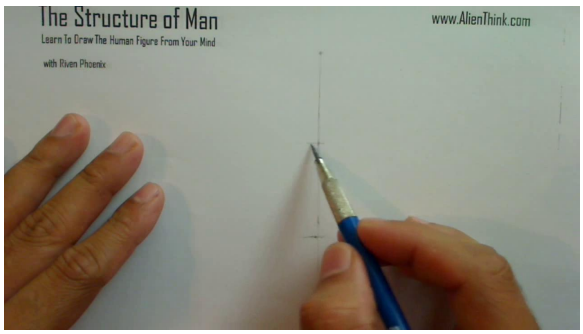
45		We're going to actually make this a little bigger over here and just about here, right?
46		So I'm really right here at the bottom, okay?
47		So here are going to be my lines here, right?
48		So this is the crotch areas now over here, okay?

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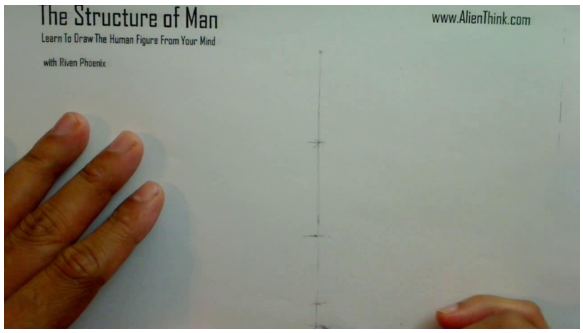
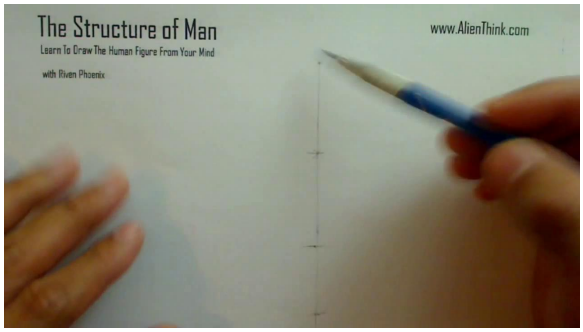
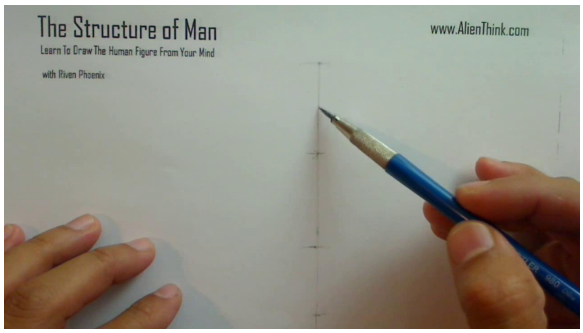
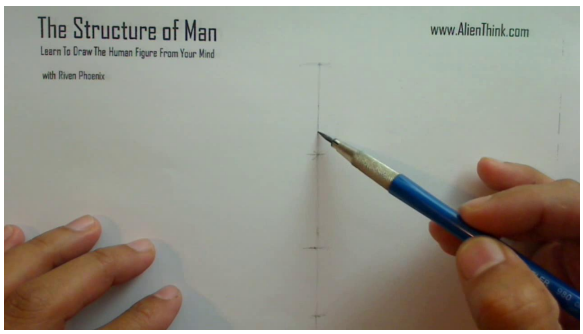
49		And this is the line for your knees, okay?
50		So what we'll do is we can now just really, to understand how big we should do it, we
51		all we need to really do is do it with the head size, right?
52		So if this was the head, if we had really just drawn this out like this circle here, let's

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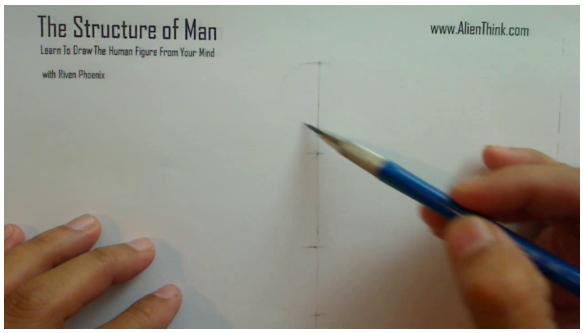
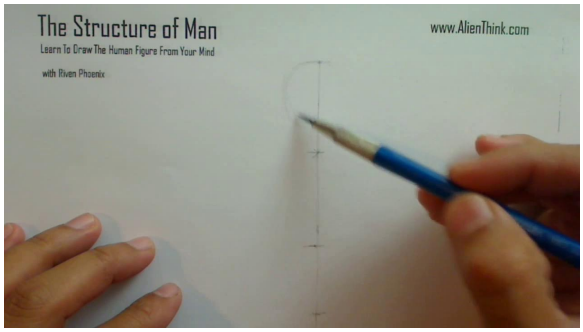
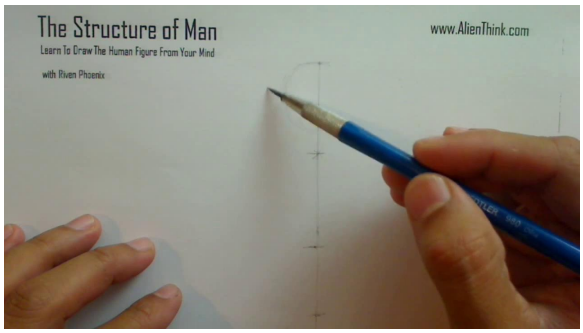
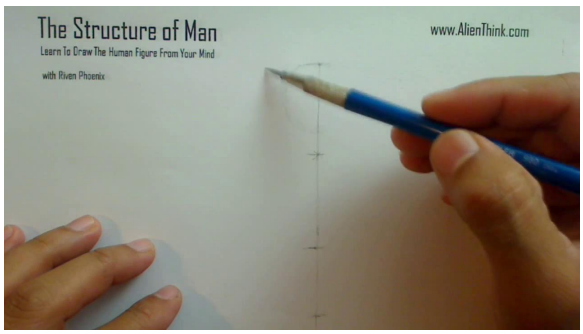
53		say we were drawing out like this circle, but you really just need to draw like half of
54		it and just basically come up with an idea, okay, well, I already know that it's really
55		just going to be here.
56		So you can just figure out that this is really where the pelvis is going to be.

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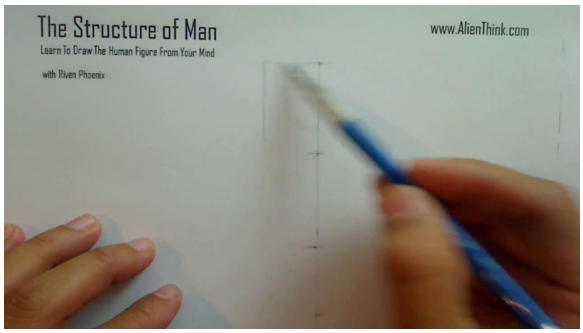
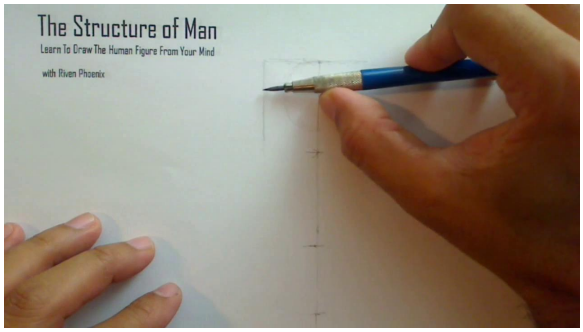
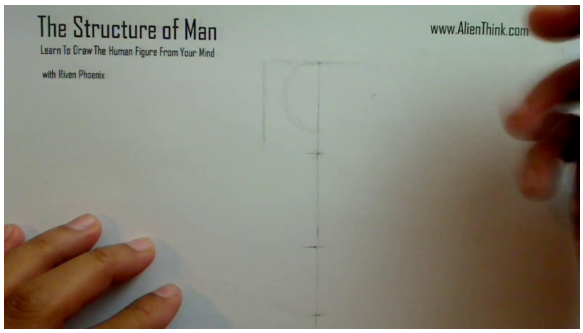
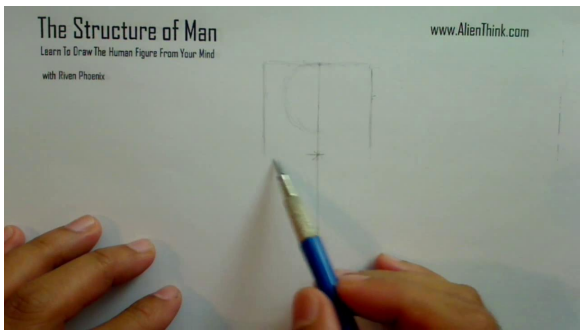
57		So here I'm going to now draw out the box for the pelvis, right?
58		Because we want to just understand how does it relate to the femur.
59		So we're just going to draw it out very roughly here like this over here.
60		So this is going to be the crotch area and we already know about that line over here,

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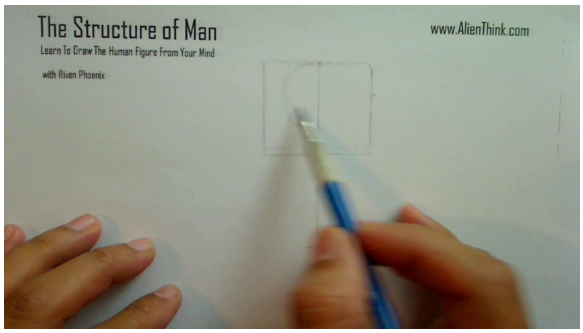
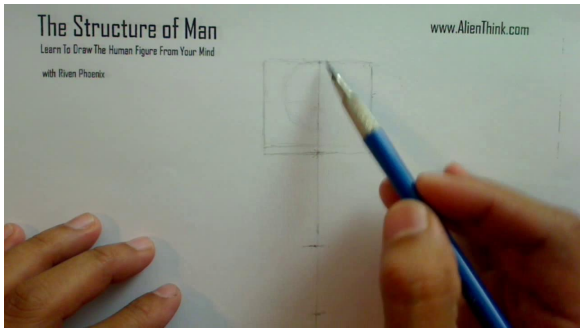
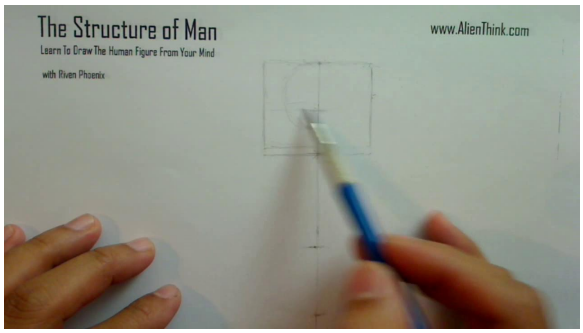
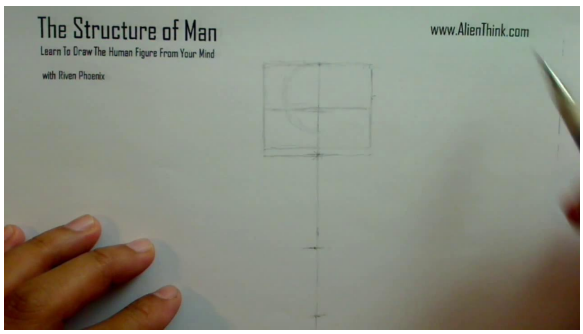
61		so we're going to really be dividing this area from this area here in about half.
62		From here to here, I'm dividing this in half.
63		It's going to be kind of like this over here, but you just need to make a rough estimate
64		of this.

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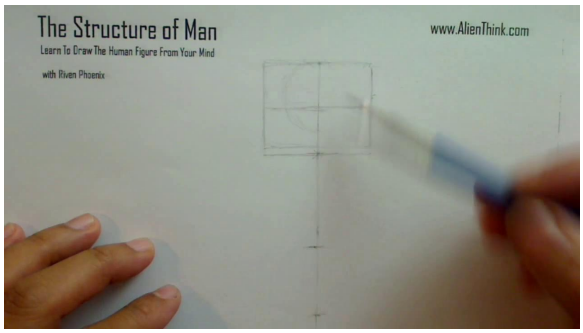
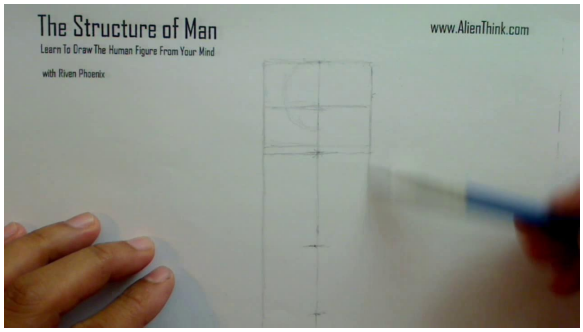
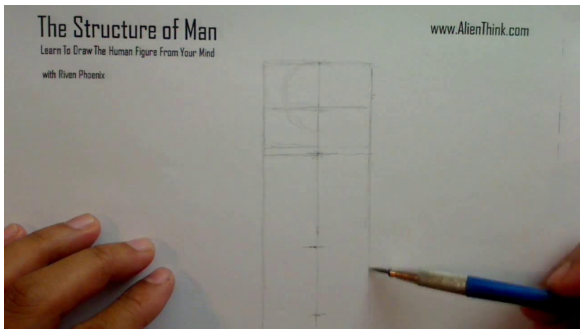
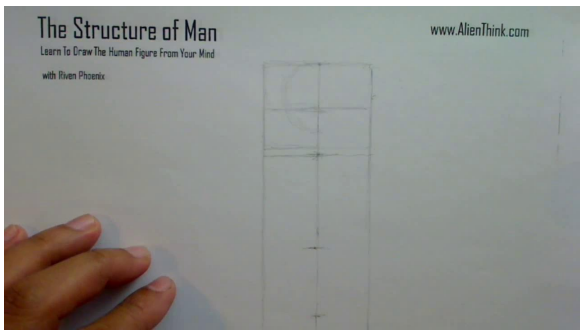
65		Okay, so here we can now just go down and make this into a whole box going all the way
66		down over here.
67		Okay, so this is going to be actually very simple to get.
68		So here, let me just erase this line here for the skull, okay.

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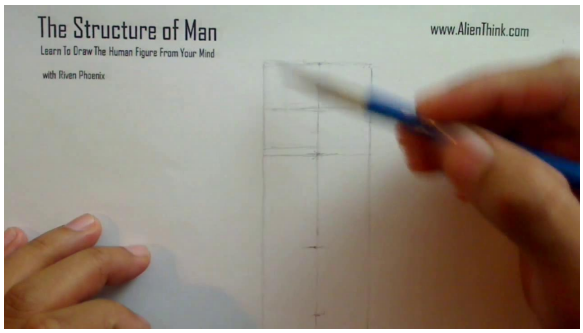
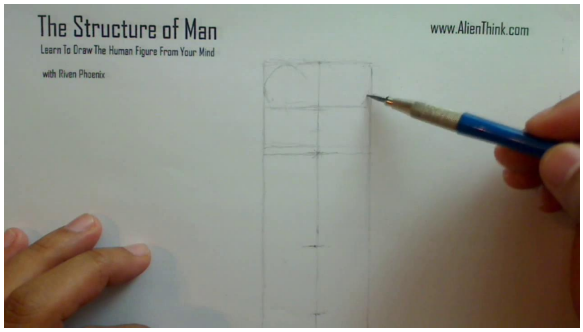
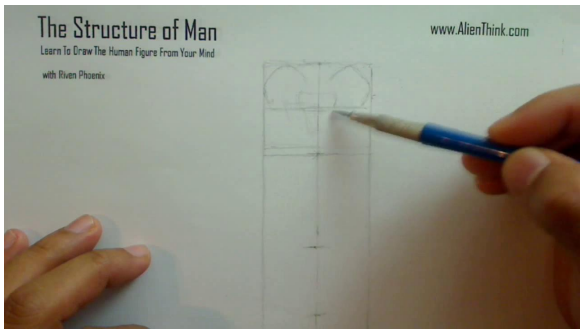
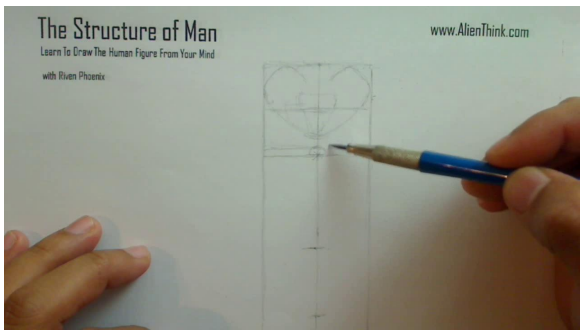
69		So if we had drawn out the pelvis area, I'm just going to rough this in, okay.
70		So here's the idea for the pelvis that we had already know how to do this, right, you're
71		going to get the sacrum over here and over here, we're going to get this idea here, the
72		bones over here, all should be very straightforward now, just to how to, let me just design this over

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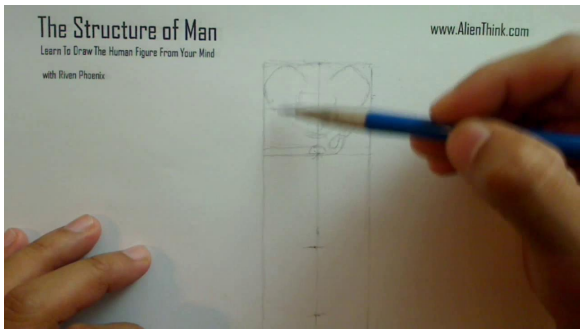
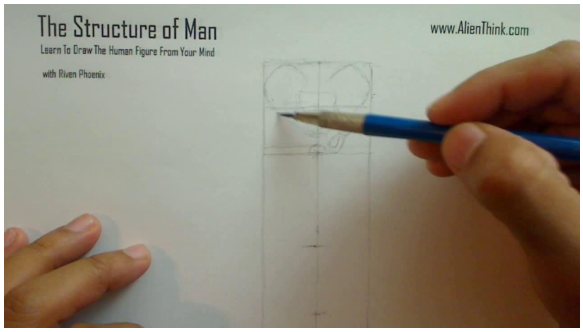
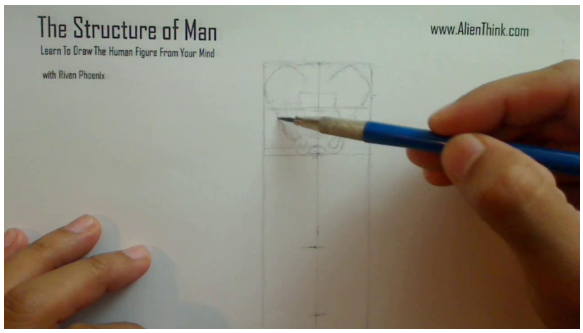
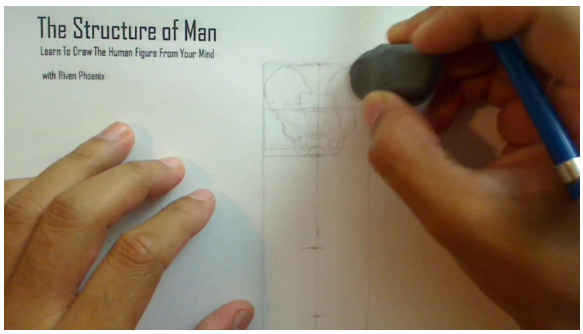
73		here.
74		Okay, I'm going over here, okay.
75		So once I have this here, what we want to do is now fix this up, okay.
76		So here, I'm just going to like to erase some of these lines here and now I'm going to put

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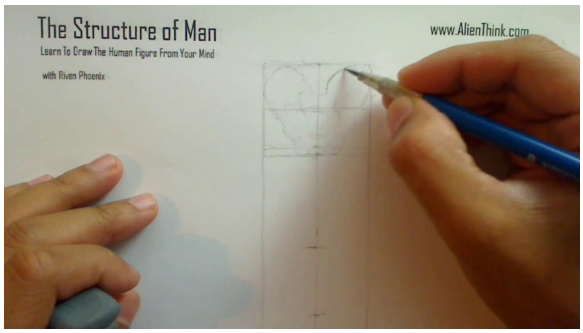
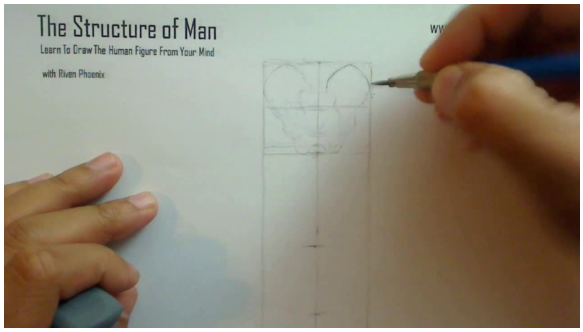
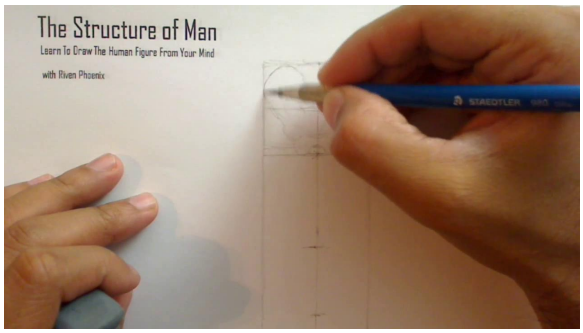
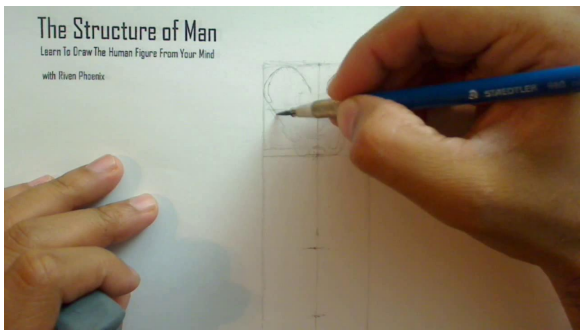
77		the good lines, right.
78		So here, I'm going to do it like this over here, it's just going in that direction and
79		this is going to be going in that direction over there, okay.
80		And then over here, this is where you're going to get your sac for the femur, right.

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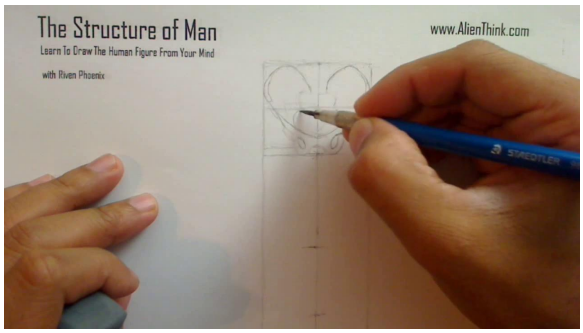
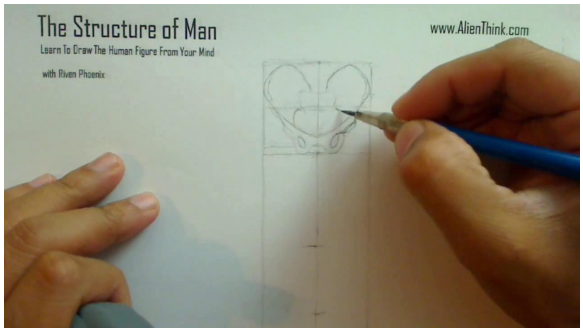
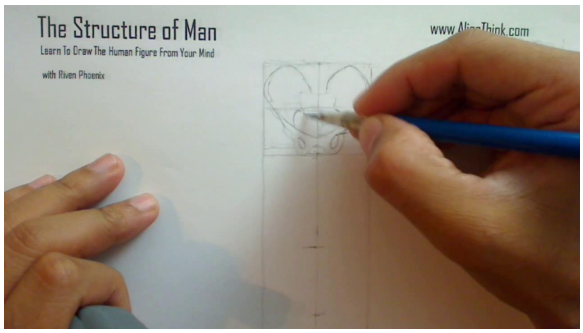
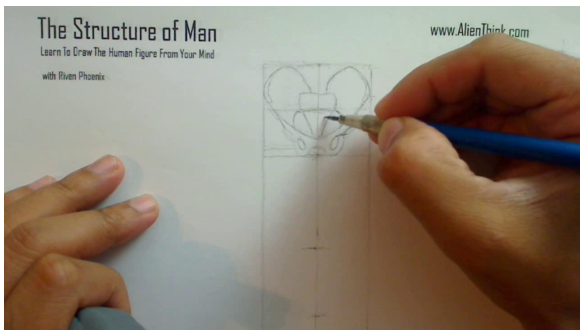
81		So here in this curve here, right, you can just soup it out a little bit more if you want
82		to, like this, right.
83		So here, you're just going to, it's just going to come like this over there, I don't like
84		this, you can do one, two, three, four, two, three, four, right now just be sketchy about

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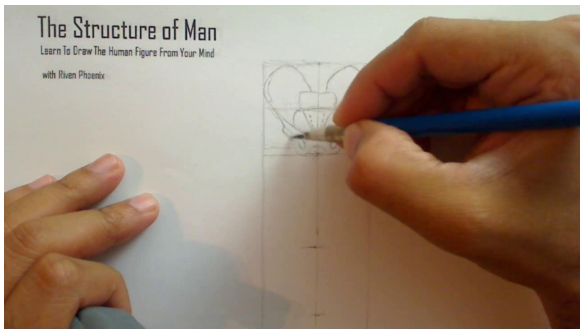
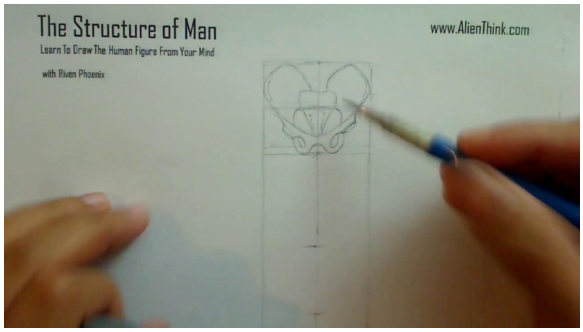
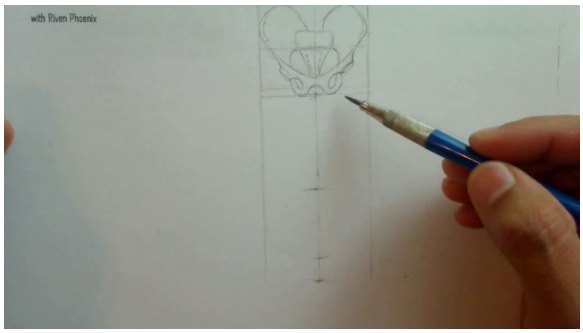
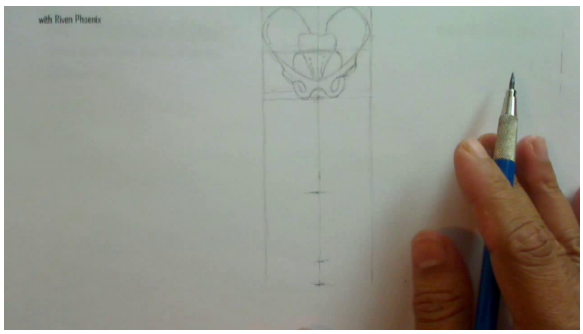
85		it, okay.
86		So once we have this, right, so what we're going to do now, we just need to understand the
87		basic concept of how does the femur work, this is very simple.
88		So basically what's going to happen is that this is where the line, the we had said that

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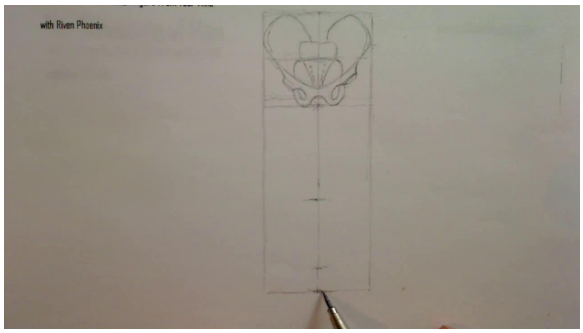
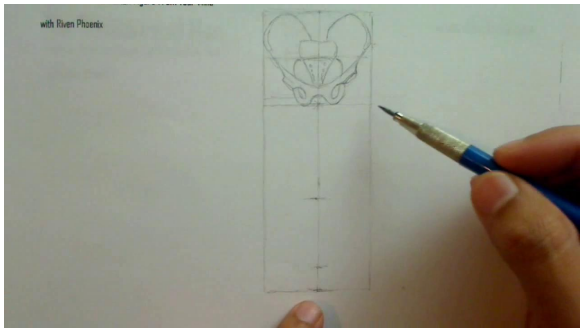
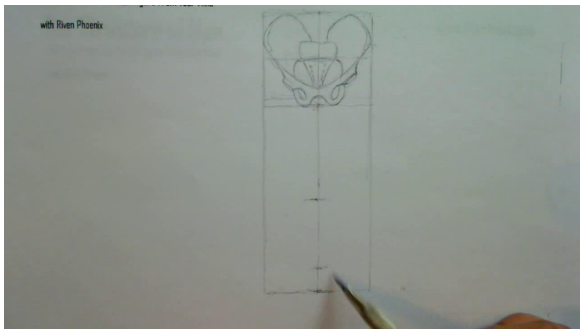
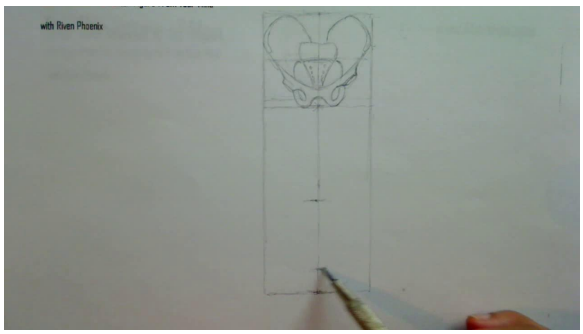
89		the knees must be above this line, right, this is the center line going down, okay.
90		So what happens is that in order for the knees to be above this, what we need to do is basically
91		know that the knees are going to be roughly around here, right.
92		So here you can just put a line, just come up a little bit and put a line across over

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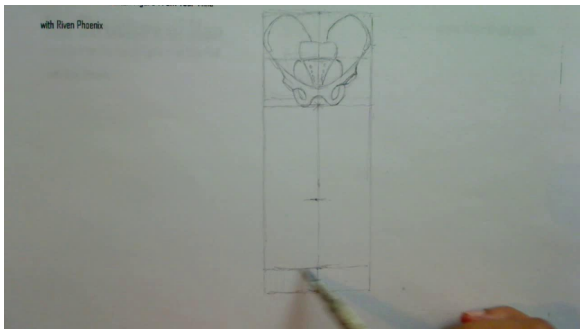
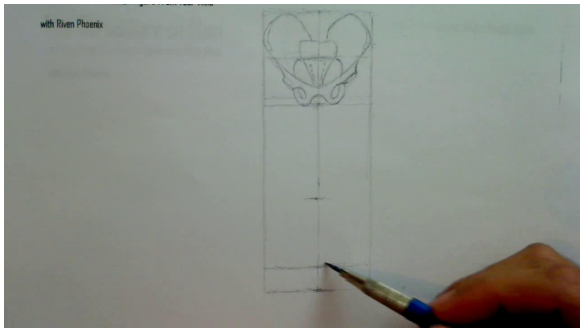
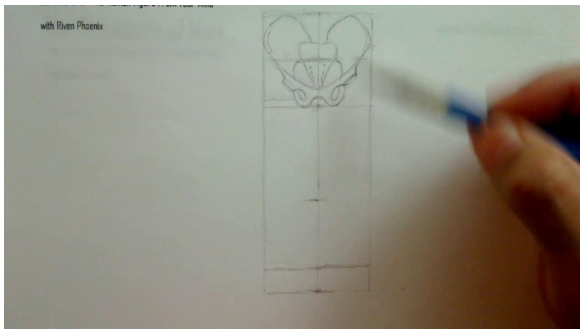
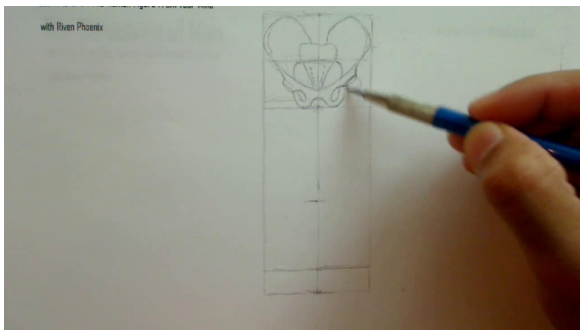
93		here, okay.
94		So the mean that the femur has to sit above this line, okay.
95		So what's going to happen is that this is your ball joint for the femur, right.
96		Put two balls over here, like this.

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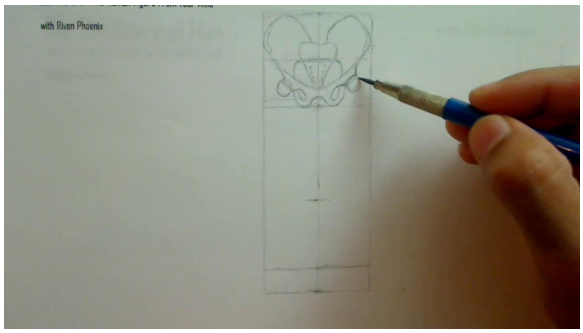
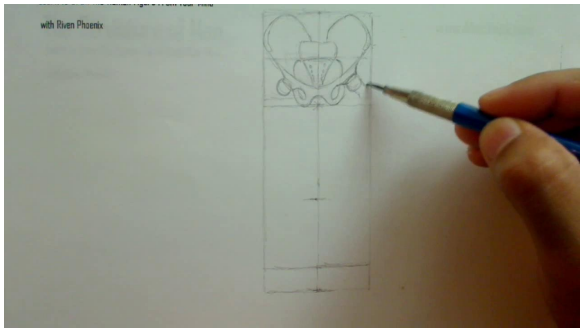
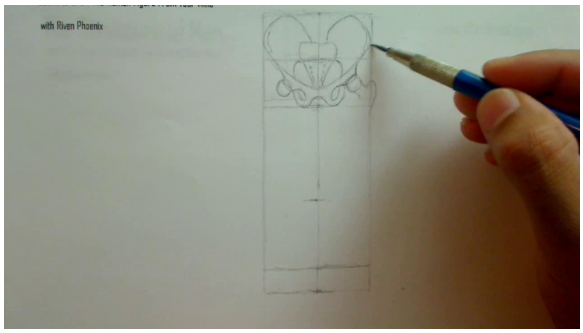
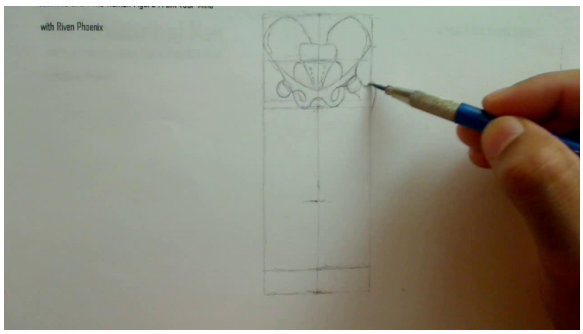
97		And this femur is really going to do nothing more than just be designed like this and it's
98		going to be like this, right.
99		So it's going to come a little bit out, that's about it, right.
100		What what happens is that just know that it's going to come up, but when it comes down

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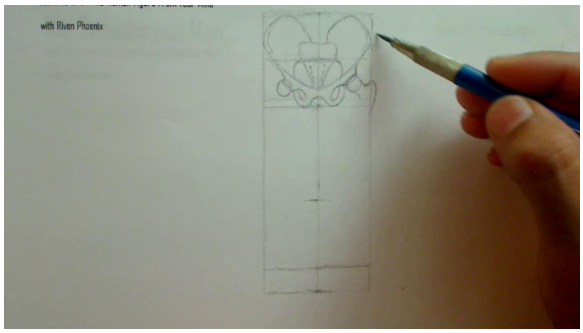
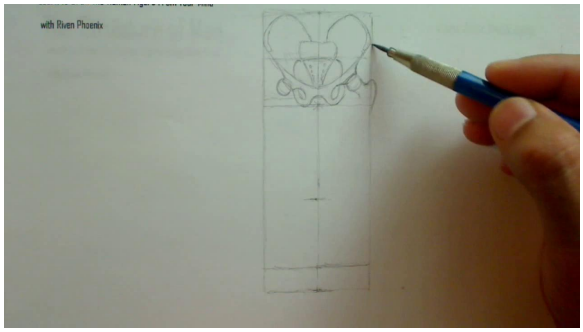
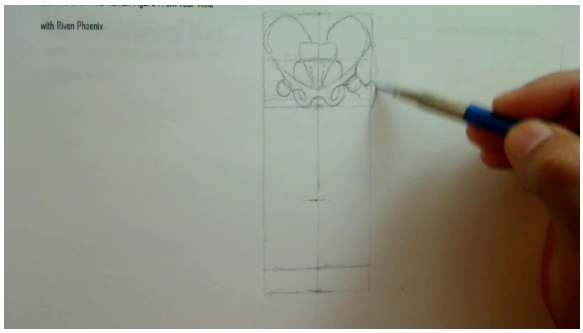
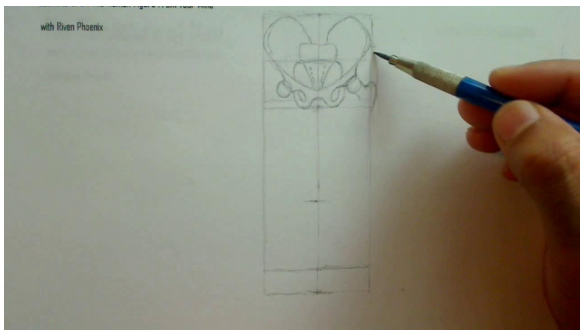
101		to the muscles, right, what's going to happen is that this is the love handles.
102		You're going to get a piece of muscle over here that's going to be coming down all over
103		here, connecting to this and then you'll get your leg muscles.
104		So you'll get like this dip, right.

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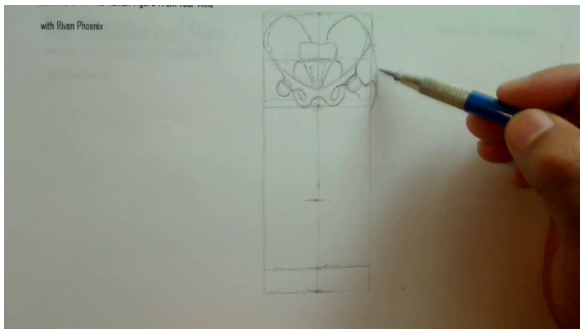
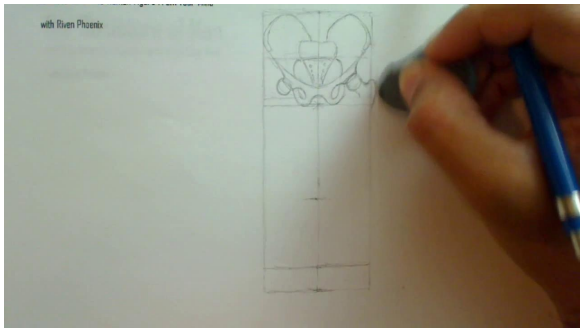
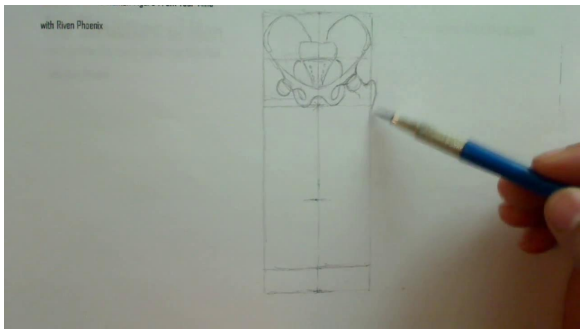
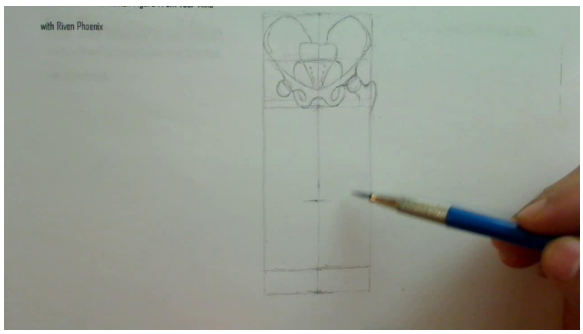
105		And it's really just a slight nudge that allows causes to happen on the male figure, right.
106		So the female would be different, would be just more wider, okay.
107		So once we get this concept here, what we need to do is just understand that these formulas
108		are very organic, meaning that you just need to understand how the femur works, right.

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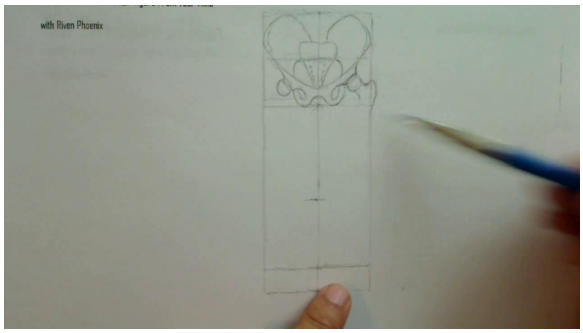
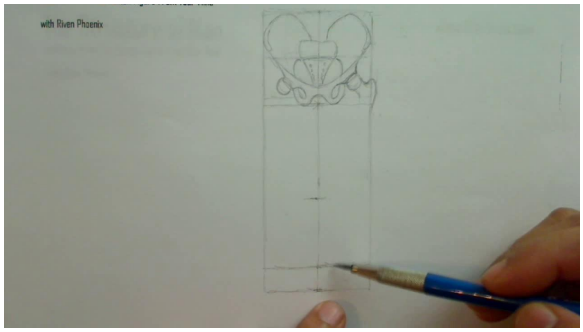
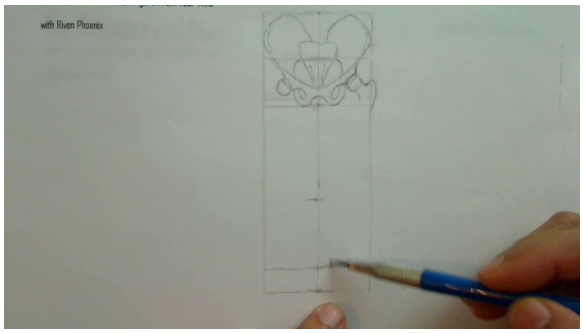
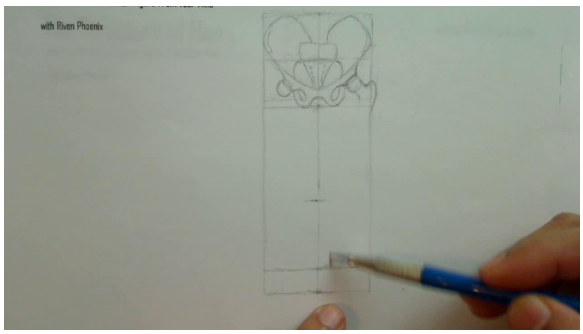
109		Because the leg really can be in any position.
110		So what happens is over here that we can just divide this like this, right.
111		Just give it a little space over here, right.
112		Make this a little bigger and just make this bottom of the bone and all you have to do

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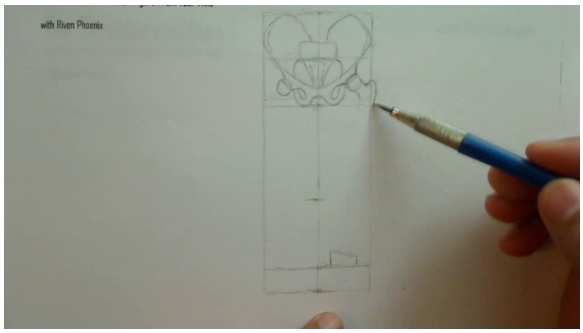
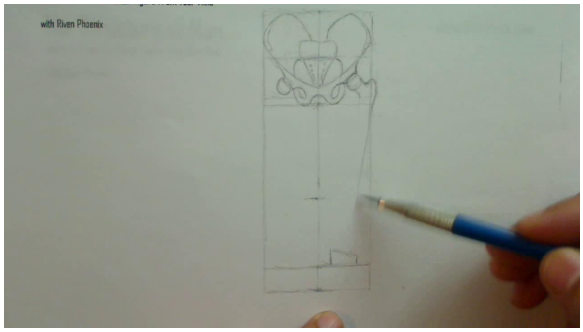
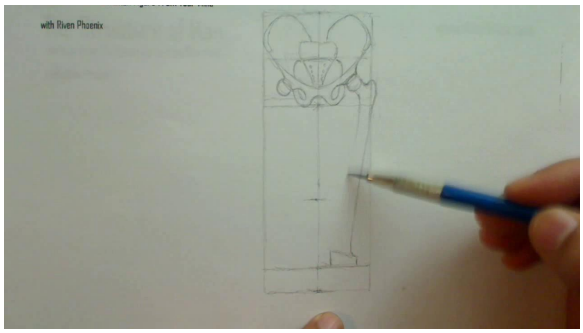
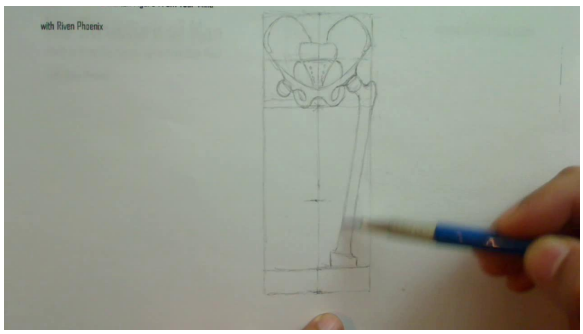
113		is just connect this over here.
114		This line from here to here, just like this, right.
115		This really nothing much more to this than just doing it this way.
116		And this is basically the concept of the femur.

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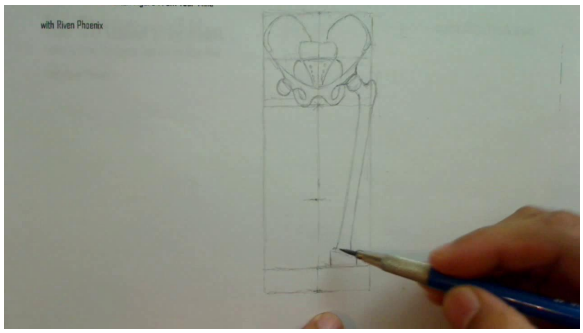
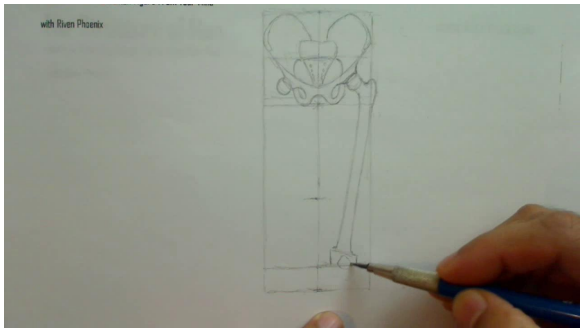
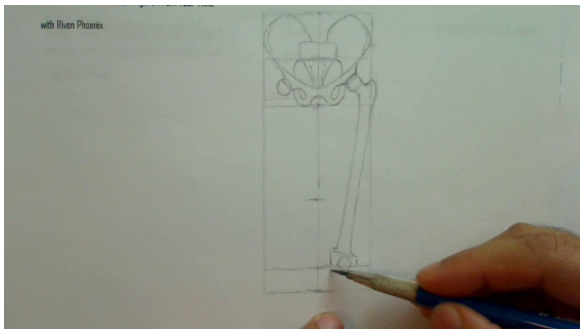
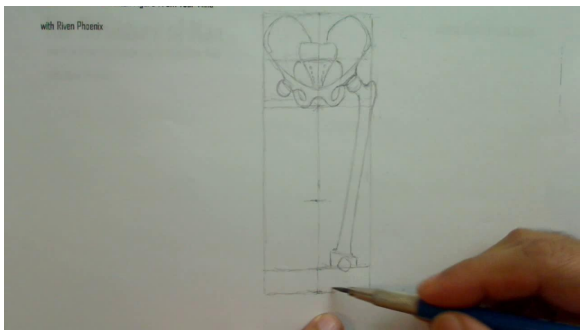
117		So what happens is that you're going to get your knee bone.
118		Here we're going to state that the knee bone is just going to be here, right.
119		So you'll get the lower part here, under here for the lower legs, right.
120		But this is the line for the knee that we have stated in the toolkit in.

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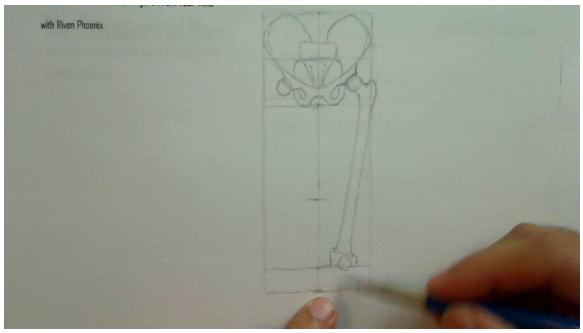
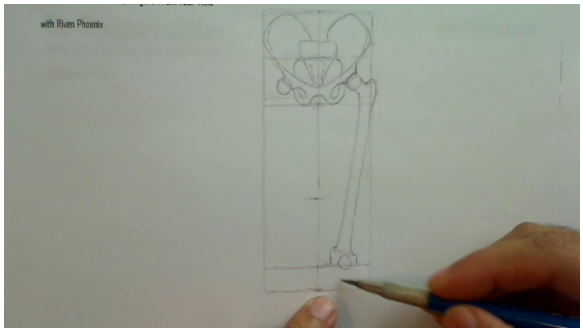
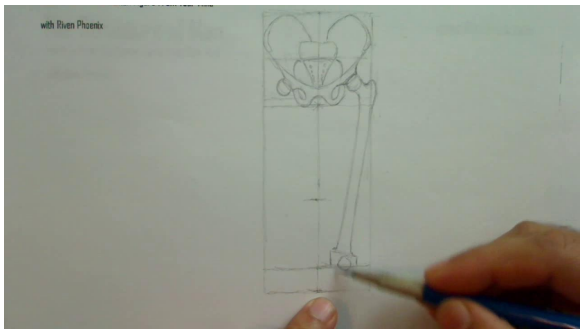
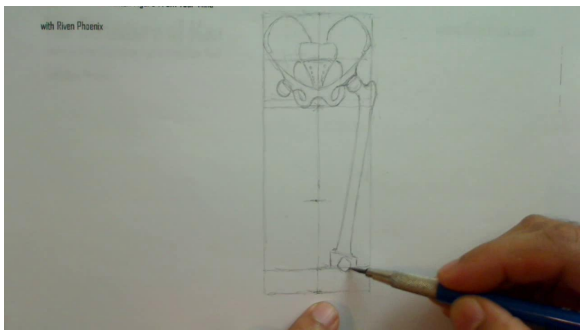
121		But the knees will be above this.
122		So basically the whole idea that when the muscle systems go in, the knees will be just
123		roughly around here, okay.
124		So this here can be a little down if you want it to.

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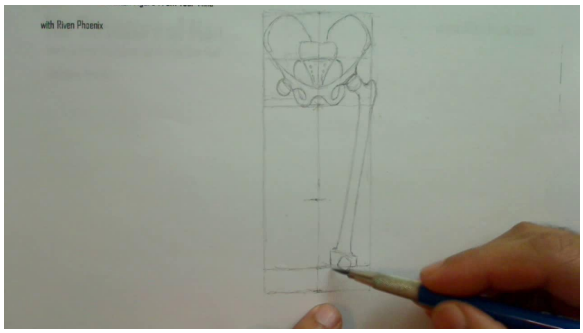
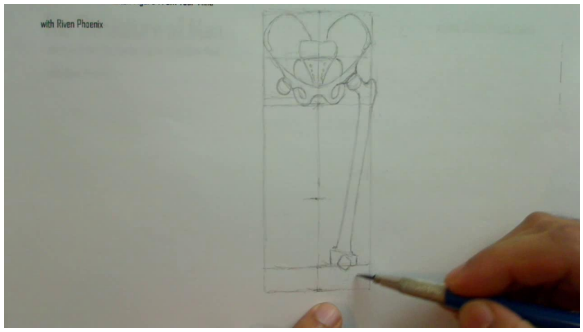
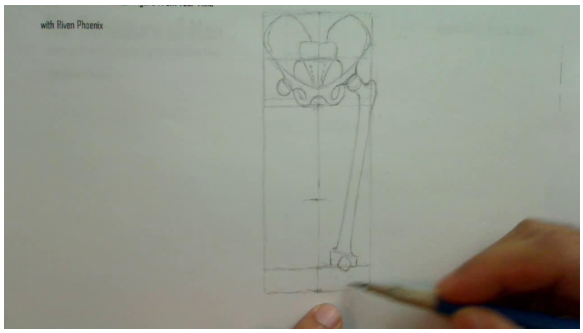
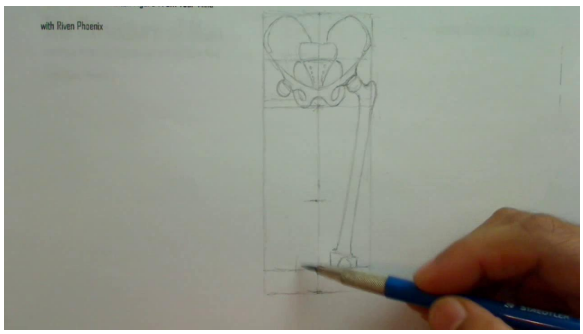
125		It doesn't really matter because this whole bone structure, your whole knee is going to
126		be like this anyways, right.
127		So it will fit correctly.
128		So here we can just do the same thing, right, and just do it this way.

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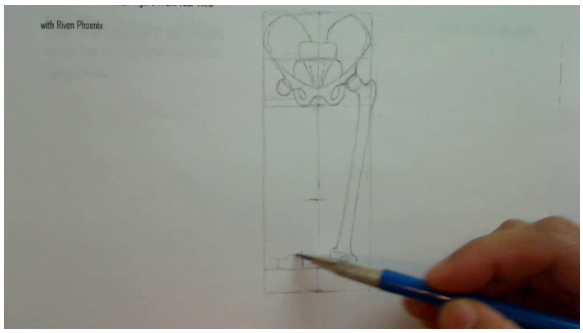
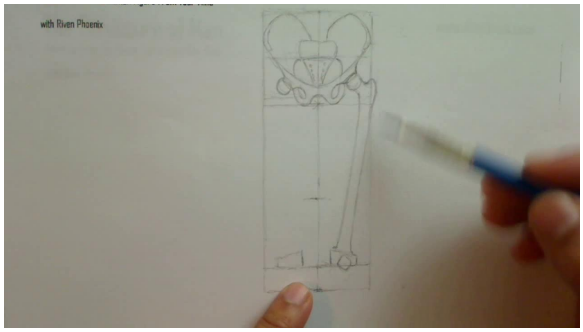
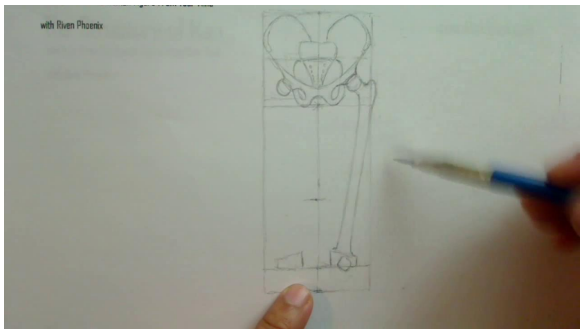
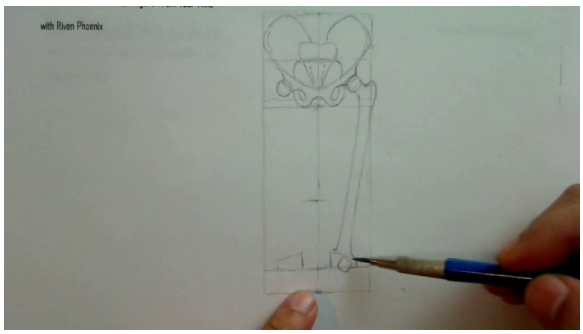
129		Remember, this is because it's just standing in front of us.
130		This leg could have been here, right.
131		You can even make it this way.
132		It doesn't matter.

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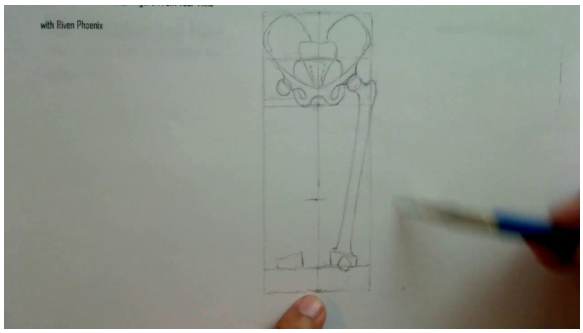
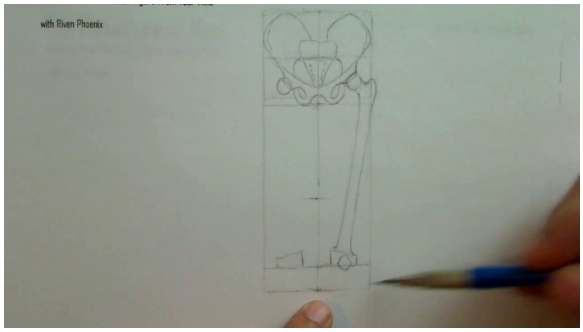
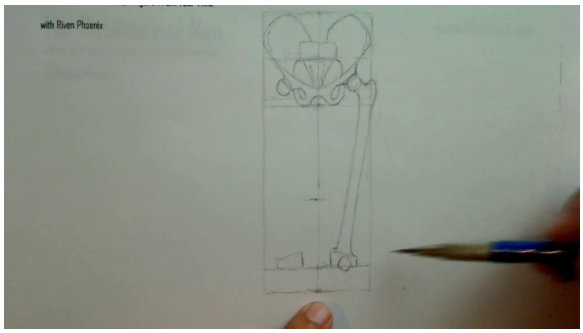
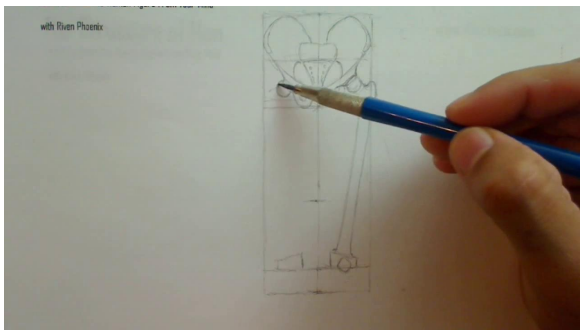
133		Regardless of if the figure standing in a stance, just know how this leg system is working,
134		right.
135		You got to use like a pendulum system.
136		So here I'm just going to do the same thing and just rough in this concept here and this

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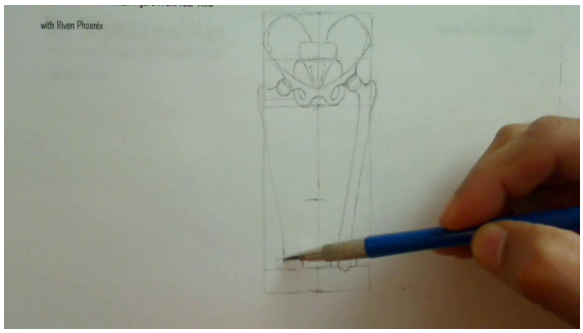
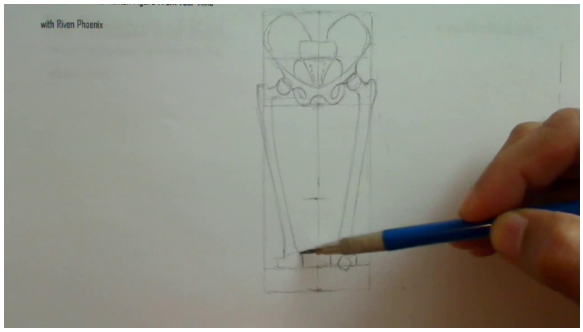
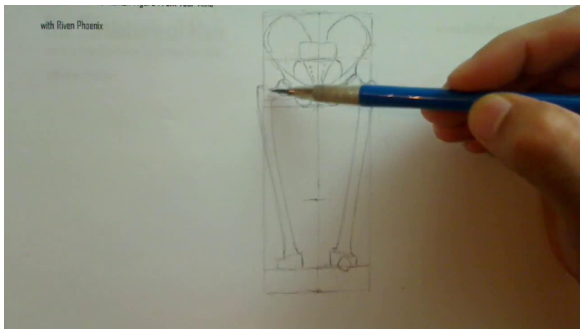
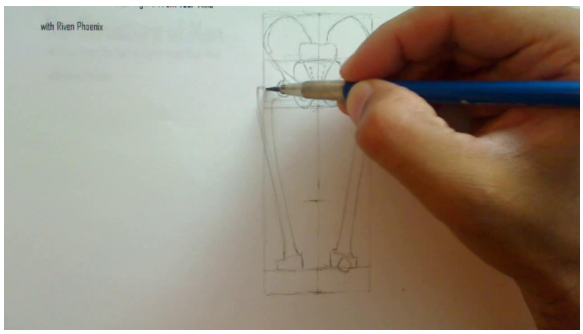
137		bone is nothing more than just this bone system going in this direction.
138		Okay.
139		And this idea for the bone is just going to be like this.
140		There's really nothing special to be understood about this because you just, we just need

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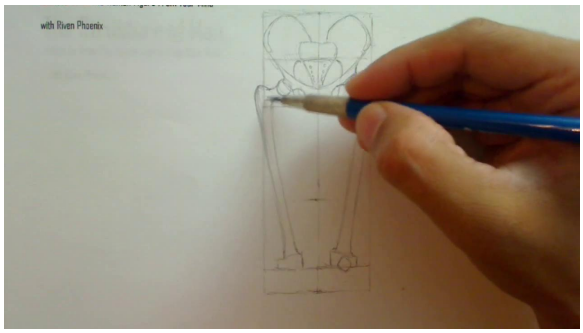
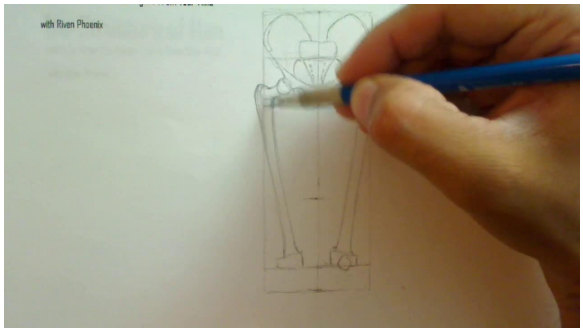
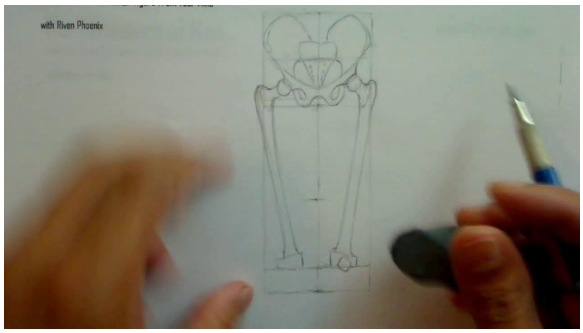
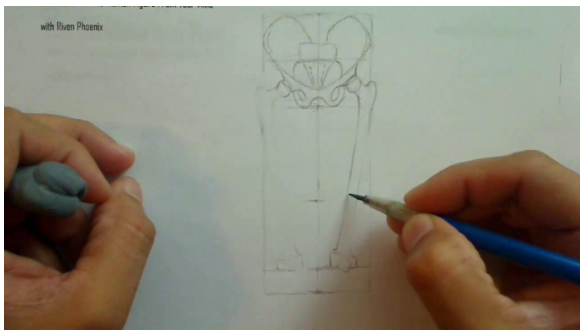
141		the mind to get the concept of it that this is what's going on, right.
142		So really you could make this a little bit more 3D over here just like this, right.
143		So once you get that, you can now erase these lines and just make them much better looking.
144		Right.

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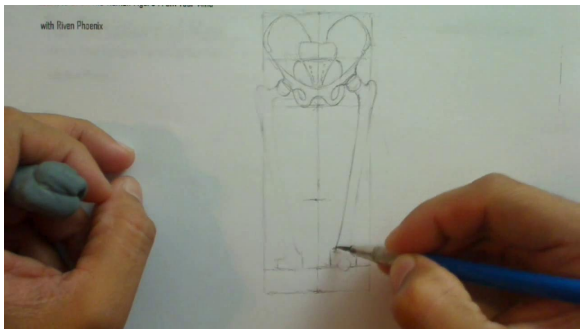
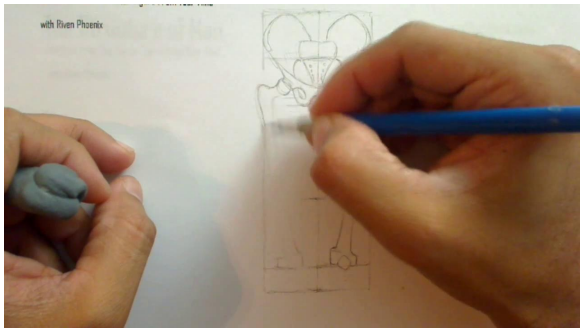
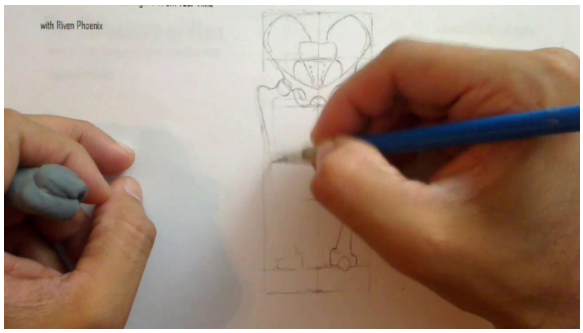
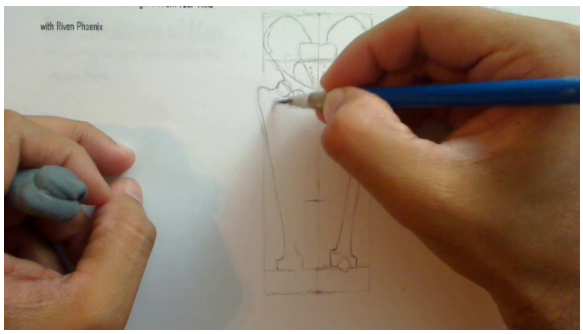
145		Like this and over here, just notice that when we are doing this, we just want to keep
146		it kind of clear.
147		I'm going to tuck it in a little bit over here to make the drawing a little bit better
148		over here.

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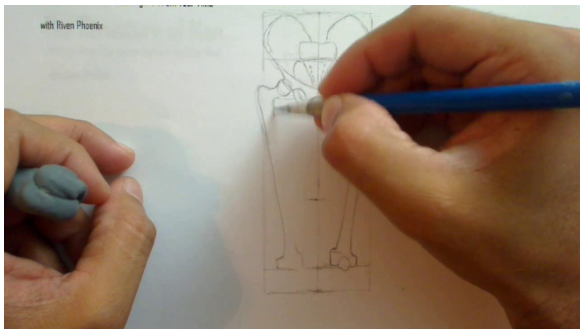
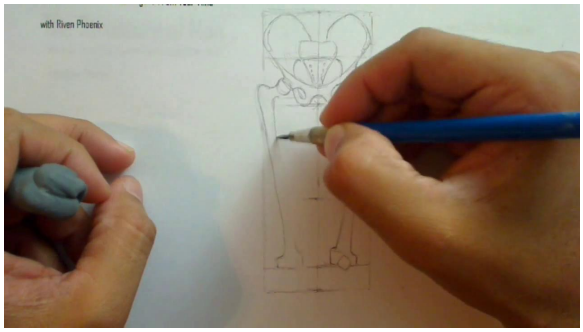
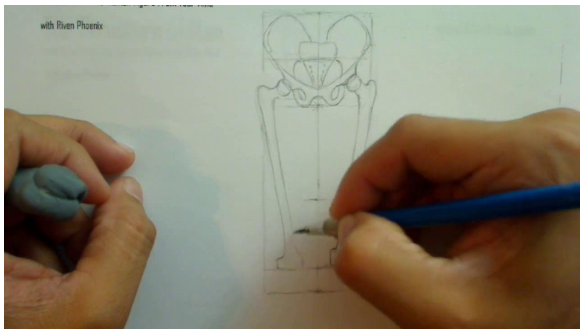
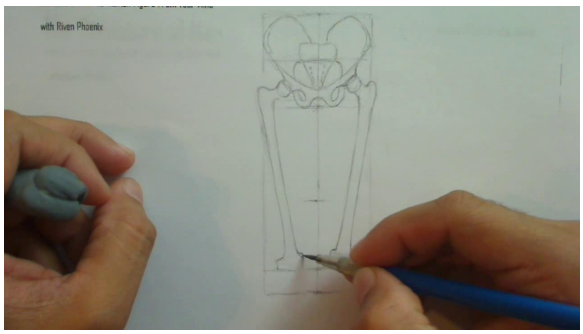
149		Right.
150		So you can change anything you want.
151		Just adjust your ideas as you move along.
152		And here I'm just going to do it this way over here and here I'm going to do basically

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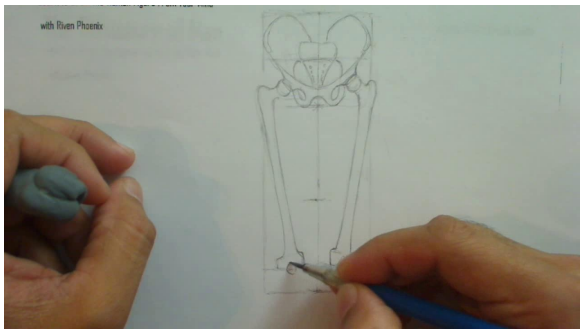
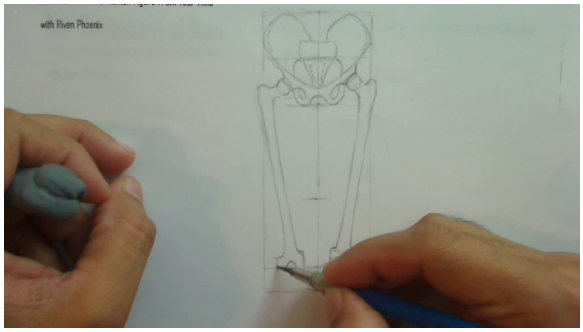
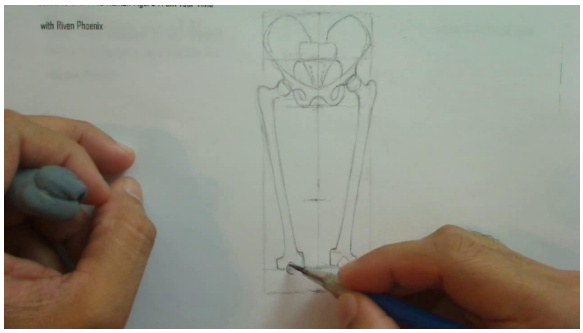
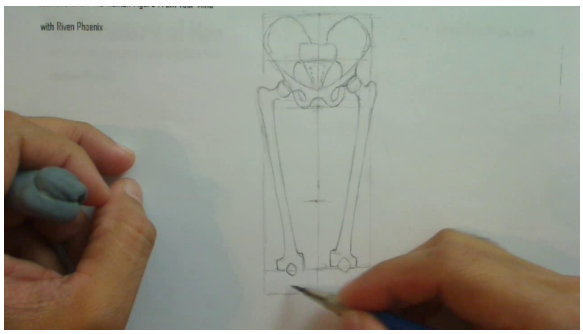
153		the knee.
154		Right.
155		So notice that this circle here is coming below that's right because it's going to attach
156		to the other bone when we get to it.

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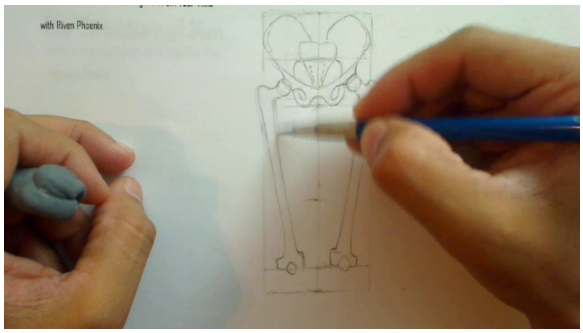
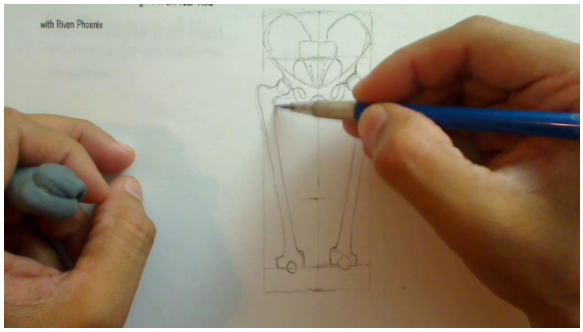
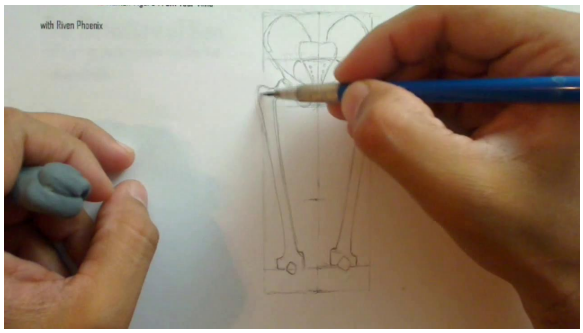
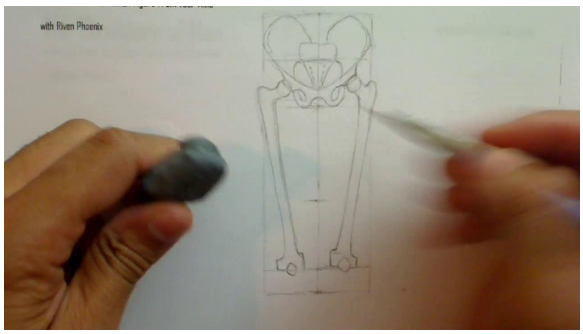
157		Right.
158		So here I'm just going to make this a little more thicker.
159		Right.
160		It doesn't have to be so schematic just make it look like a bone over here, right.

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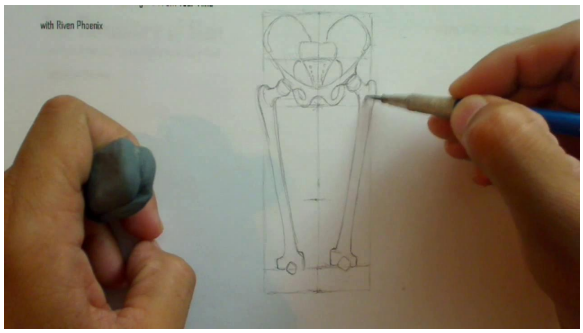
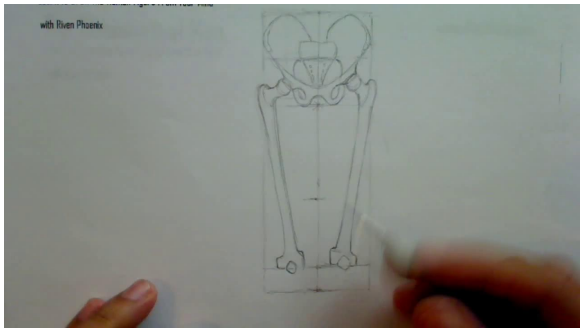
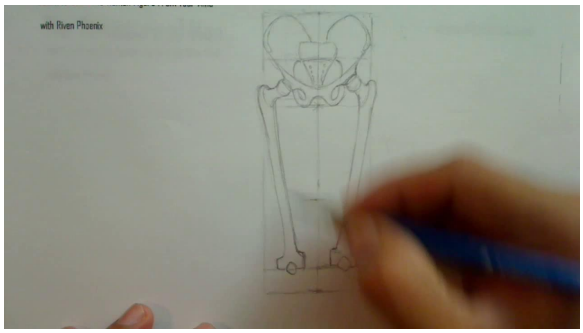
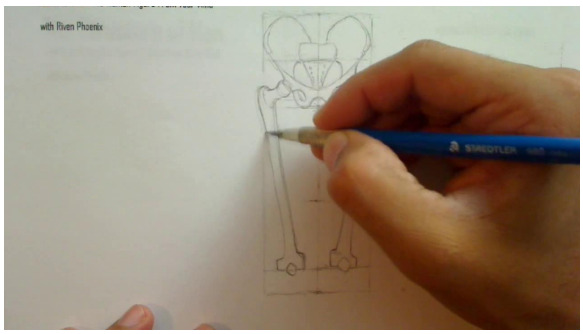
161		So here like that.
162		So this is the front idea for the the femur.
163		Okay.
164		So in the next lesson, we'll look at another view of this.

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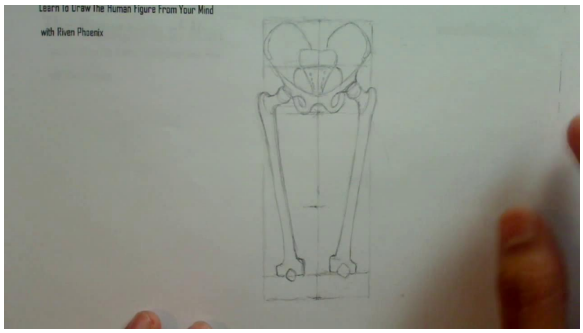
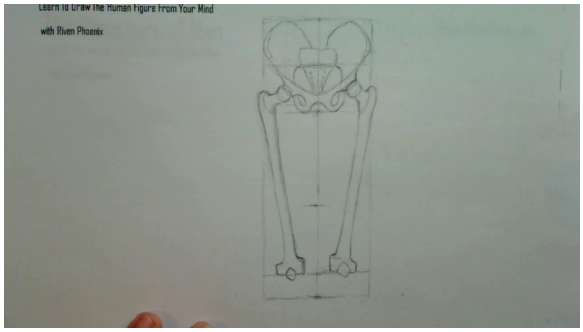
165		So I'll see you in the next lesson.
166		Thanks.

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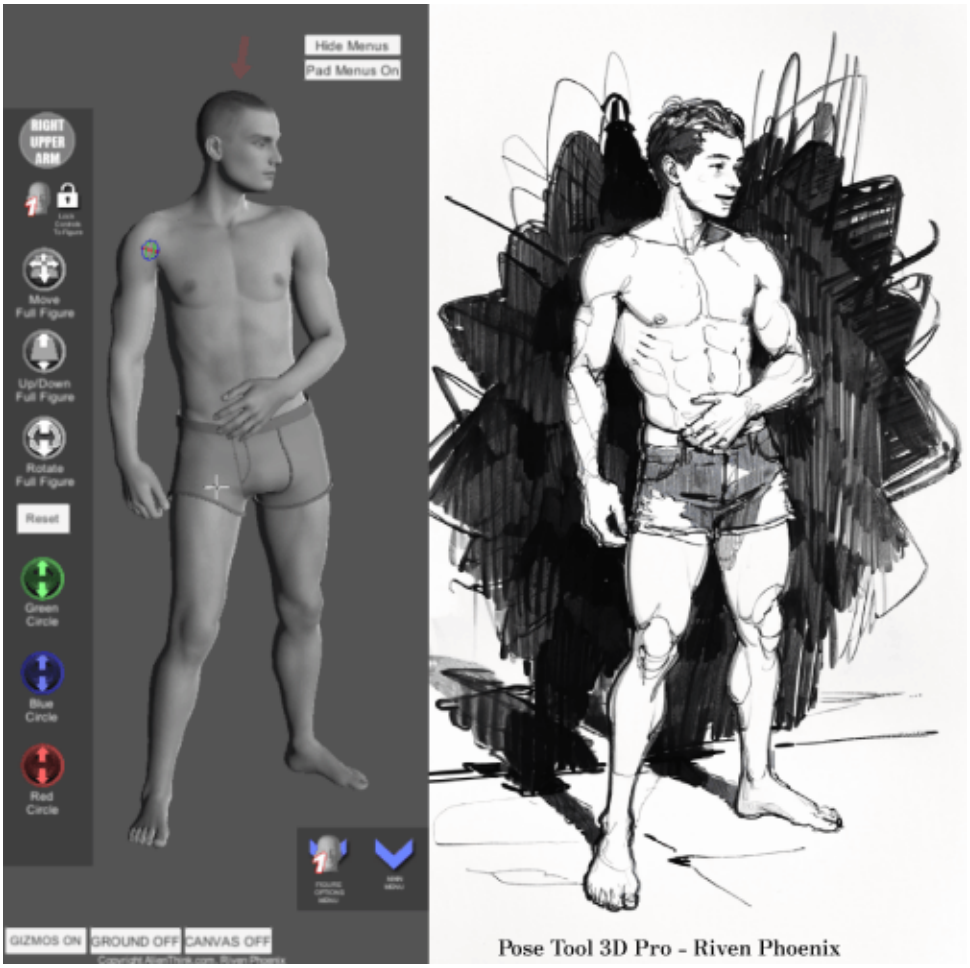

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